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PTO/SB/08A (08-00)  
Approved for use through 10/31/2002. OMB 0651-0031

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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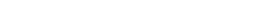
**Complete If Known**

<b>Application Number</b>	10/071032
<b>Filing Date</b>	February 8, 2002
<b>First Named Inventor</b>	Richard Dennis Dyer, et al
<b>Group A1 Unit</b>	Unknown
<b>Examiner Name</b>	Unknown

A0000425-01-CFP

U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	11/16/04
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

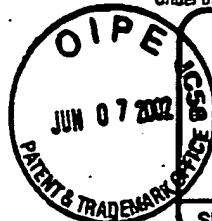
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Substitute for form 14458/PTO

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### Complete If Known

Application Number	10/071032
Filing Date	February 8, 2002
First Named Inventor	Richard Dennis Dyer, et.al
Group Art Unit	Unknown
Examiner Name	Unknown

Attorney Docket Number A0000425-01-CFP

### OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
TNT	✓	MONTANA, John, et al, "The design of selective non-substrate-based matrix metalloproteinase inhibitors". Current Opinion in Drug Discovery & Development, 2000; 3(4), pp 353-361 .	
	✓	CLARK, Ian, et al, "Matrix metalloproteinase inhibitors in the treatment of arthritis", Current Opinions in Anti-inflammatory & Immunomodulatory Investigational Drugs, 2000; 2(1), pp 16-25 .	
	✓	CHEN, James, et al, "Structure-Based Design of a Novel, Potent, and Selective Inhibitor for MMP-13 Utilizing NMR Spectroscopy and Computer-Aided Molecular Design", J. Am. Chem. Soc., 2000, 122; pp 9648-9654 .	
	✓	DERWENT ABSTRACT, 96-068630/07, "New fused imidazole cpds. - possess inhibitory activity of adhesion molecule expression (Eng.)"	
	✓	DERWENT ABSTRACT, 93-168431/21, "New Thiazolo-pyrimidine disone derivs. for treating arteriosclerosis"	
	✓	DERWENT ABSTRACT, 91-001547/01, "New sulphur-Contg. fused pyrimidine cpds. - are endothelin and interleukin inhibitors for treatment and prevention of myocardial infarction, auto:immune diseases, etc."	
	✓	DERWENT ABSTRACT, 93271 E/44, "Cyclised pro-form of 5-fluoro-uracil derivs. - are orally administered antitumour agents without side effects of parent"	
	✓	KAUL, Ravinder, et al, "2-14C-1-Allyl-3,5-diethyl-6-chlorouracil II: Isolation and Structures of the Major Sulfur-Free and Three Minor Sulfur-Containing Metabolites and Mechanism of Biotransformation", Journal of Pharmaceutical Sciences, Vol. 71, No. 8, August 1982; pp 897-900 .	
	✓	KAUL, Ravinder, et al, "Structure of a novel sulphur-containing metabolite of Acluracil (1-allyl-3,5-diethyl-6-chlorouracil)", Xenobiotica, 1982, Vol. 12, No. 8; pp 495-498 .	
	✓	KAUL, Von R., et al, "Identifizierung eines dritten S-haltigen Metaboliten von 1-Allyl-3,5-diethyl-6-chloruracil und Bildungsmechanismus der SCH - Metaboliten", Arzneim.-Forsch./Drug Res., 1982; 32(I)(6); pp 610-612 .	
TNT	✓	BROWN, et al, "The Synthesis of Some 1-Substituted Cytosine and Uracil Derivatives", J. Chem. Soc., 1972; pp 2385-2391 .	

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Date Considered

11/16/04

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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/071032
				Filing Date	February 8, 2002
				First Named Inventor	Richard Dennis Dyer, et al
				Group Art Unit	Unknown
				Examiner Name	Unknown
Sheet	3	of	3	Attorney Docket Number	A0000425-01-CFP



## **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

*(use as many sheets as necessary)*

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**Complete if Known**

**Application Number**

10/07/032

**Filing Date:**

February 8, 2002

**First Named Inventor:**

**Lord Dennis Dy**

Group Art Unit

## **Unknown**

**Examiner Name**

## **Unknown**

#### **OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
TNT	✓	PECORARI, Piergiogio, et al, "Synthesis And Biological Activity of Pyrimido [2,1-b] [1,3]Thiazine, [1,3]Thiazino[3,2-a]Purine And [1,2,3]Triazolo[4,5-d][1,3]Thiazino[3,2-a]Pyrimidine Derivatives And Thiazole Analogues (*)", IL Farmaco, 46 (7,8), 1991; pp 899-911 ,	
	✓	DE MELO, S. J., et al, "5-fluoro (3H) pyrimidine-4-ones: synthese, reactivite et proprietes pharmacologiques", Ann. Pharmaceutiques francaises, 1992, 50, n 1, pp 39-51 ;	
	✓	Chem. Abstr. 1992; 117; pp 143023e - COPY TO FOLLOW De Melo et. al.	
	✓	FASKHUTDINOW, et al, Kim. Farm. Zh. 1988; 22(5); pp 557 - COPY TO FOLLOW	
	✓	Chem. Abstr. 1988; 109; pp 162901r - COPY TO FOLLOW Faskhutdinov et.al ,	
TNT	✓	TOZKOPARAN, Birsen, et al, "Condensed Heterocyclic Compounds: Synthesis and Antiinflammatory Activity of Novel Thiazolo[3,2-a]pyrimidines", Arch. Pharm. Pharm. Med. Chem. 331, (Weinheim, Germany); 1998; pp 201-206 ,	

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Sheet 1 of 3

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Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	A0000425-01-CFP

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Attorney Docket Number	A0000425-01-CFP



PATENT

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

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TNT	✓	MOFFANA, John, et al, "The design of selective non-substrate-based matrix metalloproteinase inhibitors", Current Opinion in Drug Discovery & Development, 2000; 3(4), pp 353-361 ,	
	✓	CLAIR, Ian, et al, "Matrix metalloproteinase inhibitors in the treatment of arthritis", Current Opinions in Anti-Inflammatory & Immunomodulatory Investigational Drugs, 2000; 2(1), pp 16-25 ,	
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	✓	DEMENT ABSTRACT, 91-001547/01, "New sulphur-Contg. fused pyrimidine cpds. - are endothelin and interleukin inhibitors for treatment and prevention of myocardial infarction, auto:immune diseases, etc." ,	
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Sheet 1 of 1

#13

<b>U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE</b>  <b>SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use several sheets if necessary)</i>	<b>ATTY. DOCKET NO.</b> <b>A0000425-01-CFP</b>	<b>SERIAL NO.</b> <b>10/071,032</b>
<b>APPLICANT</b> <b>Richard Dennis Dyer, et al.</b>		
<b>FILING DATE</b> <b>February 08, 2002</b>	<b>GROUP</b> <b>1624</b>	

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc)**

EXAMINER	<i>M. Brown</i>	DATE CONSIDERED	5/12/04
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**ANY COPIES OF DOCUMENTS LISTED ON THIS FORM PTO-1449 SHOULD HAVE CERTAIN INFORMATION PLACED ALONG THE LEFT SIDE OF THE DOCUMENT. INFORMATION SUCH AS DOCKET NUMBER, FILING DATE, SERIAL NUMBER, ART UNIT, ETC.**



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STATEMENT BY APPLICANT

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Sheet 1 of 4

## Complete if Known

Application Number	10/071,032
Filing Date	February 8, 2002
First Named Inventor	Richard Dennis Dyer
Art Unit	1624
Examiner Name	Tamithom Ngo Truong
Attorney Docket Number	A0000425-01-CFP

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Column, Line, Where Relevant Passages or Relevant Figures Appear
TNT	✓	US- 2003/0004172	01-02-2003	Harter, et al	514/260.1
	✓	US- 2003/0078276	04-24-2003	Andrianjara, et al	514/266.1
	✓	US- 2002/0193377	12-19-2002	Andrianjara, et al	514/248
	✓	US- 2003/0144274	07-31-2003	Bunker, et al	514/223.2
	✓	US- 2003/0130278	07-10-2003	Gaudilliere, et al	514/228.5
	✓	US- 2003/0216402	11-20-2003	Gaudilliere, et al.	514/251
	✓	US- 2004/0006077	01-08-2004	Gaudilliere, et al	514/227.8
	✓	US- 2004/0063673	04-01-2004	Johnson	514/114
	✓	US- 2004/0034054	02-19-2004	Wilson	514/301
	✓	US- 2004/0038973	02-26-2004	Nahra et al.	514/243
	✓	US- 2004/0039012	02-26-2004	Wilson	514/301
	✓	US- 2004/0038994	02-26-2004	Wilson	514/260.1
	✓	US- 2004/0043991	03-04-2004	Picard et al.	514/222.8
	✓	US- 4,419,356	12-06-1983	Debarre et al.	514/259.2
	✓	US- 4,421,914	12-20-1983	Okamura et al.	544/278
	✓	US- 4,383,996	05-17-1983	Oba et al.	514/259.2
	✓	US- 4,302,585	11-24-1981	Wei et al.	544/247
TNT	✓	US-10/739,261		Bunker et al.	Filed 12-18-2003
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FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Page, Column, Line, Where Relevant Passages Or Relevant Figures Appear
TNT	✓	WO 02/064599	08-22-2002	Dyer et al	
	✓	WO 02/064598	08-22-2002	Harter, et al	
	✓	WO 02/064080	08-22-2002	Andrianjara, et al	
	✓	WO 02/064572	08-22-2002	Andrianjara, et al	
	✓	WO 03/032999	04-24-2003	Bunker et al.	
TNT	✓	WO 03/033478	04-24-2003	Gaudilliere et al.	

Examiner Signature	<i>W. Dyer</i>	Date Considered	11-16-04
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Sheet 3 of 4

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Art Unit	1624
Examiner Name	Tamithom Ngo Truong
Attorney Docket Number	A0000425-01-CFP

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		Country Code* Number * Kind Code* (if known)				
TNT	✓	WO 2004/014916	02-19-2004	Wilson		
TNT	✓	WO 2004/014923	02-19-2004	Picard et al.		
TNT	✓	WO 96/38434	12-05-1996	Hupe et al.		

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PTO/SB/083 (08-03)

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**NON PATENT LITERATURE DOCUMENTS**

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TNT	✓	Office Action from 10/264,764 (PC20536A) mailed 6.16.03	
	✓	LOVEJOY et al., "Crystal structures of MMP-1 and -13 reveal the structural basis for selectivity of collagenase inhibitors", Nature Structural Biology, 1999, Vol. 6, No. 3, pages 217-221 .	
	✓	MOY et al., "High-resolution Solution Structure of the Catalytic Fragment of Human Collagenase-3 (MMP-13) Complexed with a Hydroxamic Acid Inhibitor", J. Mol. Biol., 2000, Vol. 302, 671-689 .	
	✓	MITCHELL et al., "Cloning, Expression, and Type II Collagenolytic Activity of Matrix Metalloproteinase-13 from Human Osteoarthritic Cartilage", J. Clin. Invest., 1996, Vol. 97, No. 3, pages 761-768 .	
	✓	NEUHOLD et al., "Postnatal expression in hyaline cartilage of constitutively active human collagenase-3 (MMP-13) reduces osteoarthritis in mice", J. Clin. Invest., 2001, Vol. 107, No. 1, pages 35-44 .	
	✓	DAHLBERG et al., "Selective Enhancement of Collagenase-Mediated Cleavage of Resident Type II Collagen in Cultured Osteoarthritis Cartilage and Arrest with a Synthetic Inhibitor that Spares Collagenase 1 (Matrix Metalloproteinase 1)", Arthritis & Rheum., 2000, Vol. 43, No. 3, pages 673-682 .	
	✓	BILLINGHURST et al., "Comparison of the Degradation of Type II Collagen and Proteoglycan in Nasal and Articular Cartilages Induced by Interleukin-1 and the Selective Inhibition of Type II Collagen Cleavage by Collagenase", Arthritis & Rheum., 2000, Vol. 43, No. 3, pages 664-672 .	
	✓	BILLINGHURST et al., "Enhanced Cleavage of Type II Collagen by Collagenases in Osteoarthritic Articular Cartilage", J. Clin. Invest., 1997, Vol. 99, No. 7, pages 1534-1545 .	
	✓	HIROTA et al., "Novel Synthesis of Pyrido[3,4-d]pyrimidines, Pyrido[2,3-d]pyrimidines, and Quinazolines via Palladium-Catalyzed Oxidative Coupling", Heterocycles, 1994, Vol. 37, No. 1, pages 563-570 .	
TNT	✓	PCT International Search Report, PCT/IB02/00313 .	

Examiner Signature		Date Considered	11/16/04
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